

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
3 February 2005 (03.02.2005)

PCT

(10) International Publication Number  
**WO 2005/009515 A1**

(51) International Patent Classification<sup>7</sup>: A61M 5/20, 5/32

(21) International Application Number:  
PCT/IB2004/051318

(22) International Filing Date: 28 July 2004 (28.07.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/491,196 31 July 2003 (31.07.2003) US  
60/518,936 12 November 2003 (12.11.2003) US

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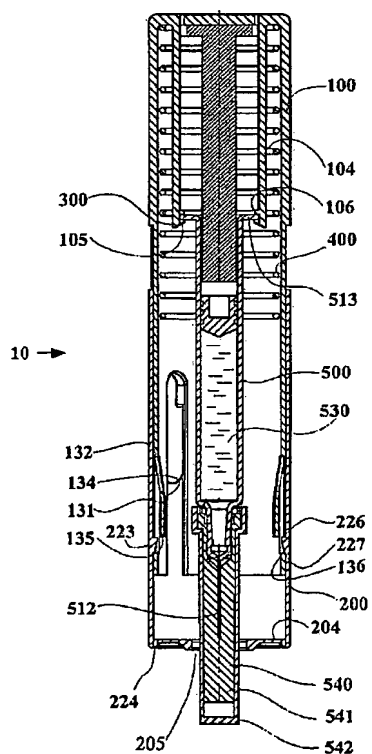
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(US). TSALS, Izrail [US/US]; c/o 2033 Trowbridge  
Drive, Newtown, PA 18940 (US).

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SI, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,

[Continued on next page]

(54) Title: INJECTING APPARATUS



(57) Abstract: An injector is automatic in that the needle is inserted into the in-  
jection site (e.g., a patient's skin) with user or caregiver assistance, the delivery is  
automatically initiated upon needle insertion, and the needle is retracted automat-  
ically after the end of delivery. Preferably the needle is not seen by the user prior  
to, during or after injection. Prior to and after injection, the needle is hidden in the  
device so as to avoid any potential injury or health risk to the user or health care  
provider. The injector (10) includes a housing (100) and a shield (200) arranged to  
slide relative to the housing and a driver (300) moving during drug delivery. The  
housing (100) and shield (200) form a cartridge enclosure. The cartridge (500)  
is shielded and locked after delivery is completed. A needle-locking mechanism  
can be used in any number of pen-like injectors or safety needles.

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FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,  
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,  
GW, ML, MR, NE, SN, TD, TG).

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**Published:**

— *with international search report*